Application No 10/628,207
Application dated July 29, 2003
Reply to office action of 11th June 2010

Amendments to the Drawings

The attached sheet of drawings includes changes to Fig 1.

(1) it is shaft of catheter

(2) it is balloon part of catheter

Here part of shaft (1) is replaced by circular spring (3)

spiral spring (4) is an alternative to circular spring (3)

Fig 2

(5) Flat inner and outer surface of struts(struts to be thin)

(6) Heatexpansile material on balloon

(7) Compressive outer surface not allowing heatexpansile material to come on outer surface of stent to trap it, it also does not allow increase in stent profile

(8) Balloon inner surface such that the heatexpansile material can not come and disturb the lumen of the balloon

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Question
Which part of shaft is replaced by spring ?
Arguments
The part of shaft with guide wire is replaced by spring.
Question
How is replaced by a spring ?
Arguments
It means that part of balloon dilation catheter shaft has been replaced by a spring(spring is attached to these two ends of shaft. Note that various parts of balloon catheter are joined together by either laser weld and pressure or hot air and pressure or convection heat and pressure or glue, depending upon type and use of balloon. The spring will be similarly attached depending upon type of balloon.)
Question
"spring" , circular or oblique spirals/strands ?
Arguments
Spring means "spring"
circular or oblique spirals/strands.
These are the two types of springs
Both I have described in original application specification see page 3, last paragraph and in figure 1 (A & B) of original application.
Question
absorb and transmit forward force ?
Arguments
any spring while being pushed at one end will get compressed(absorb force) and transmit this force forwards to other end.
Question
while maintaining alignment ?
Arguments
If spring was not there the system will buckle out.
Because of spring the total length of shaft is reduced as spring is compressed thus alignment is maintained.
Alignment is further maintained as spring is in guide wire portion of catheter

With a standard balloon catheter
Exhibit fig 1
The obstruction in the path of balloon

Exhibit fig 2
Further push of balloon pushes the guide catheter